

FIG. 1 PRIOR ART

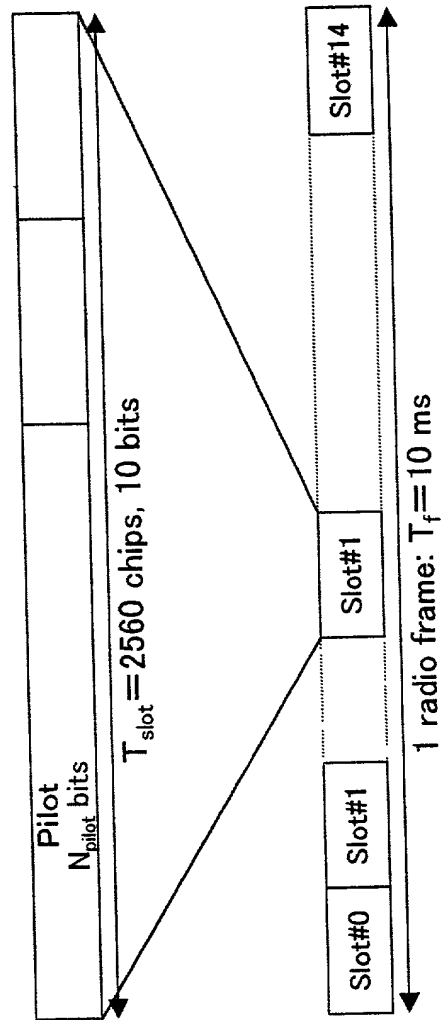


FIG. 2 PRIOR ART

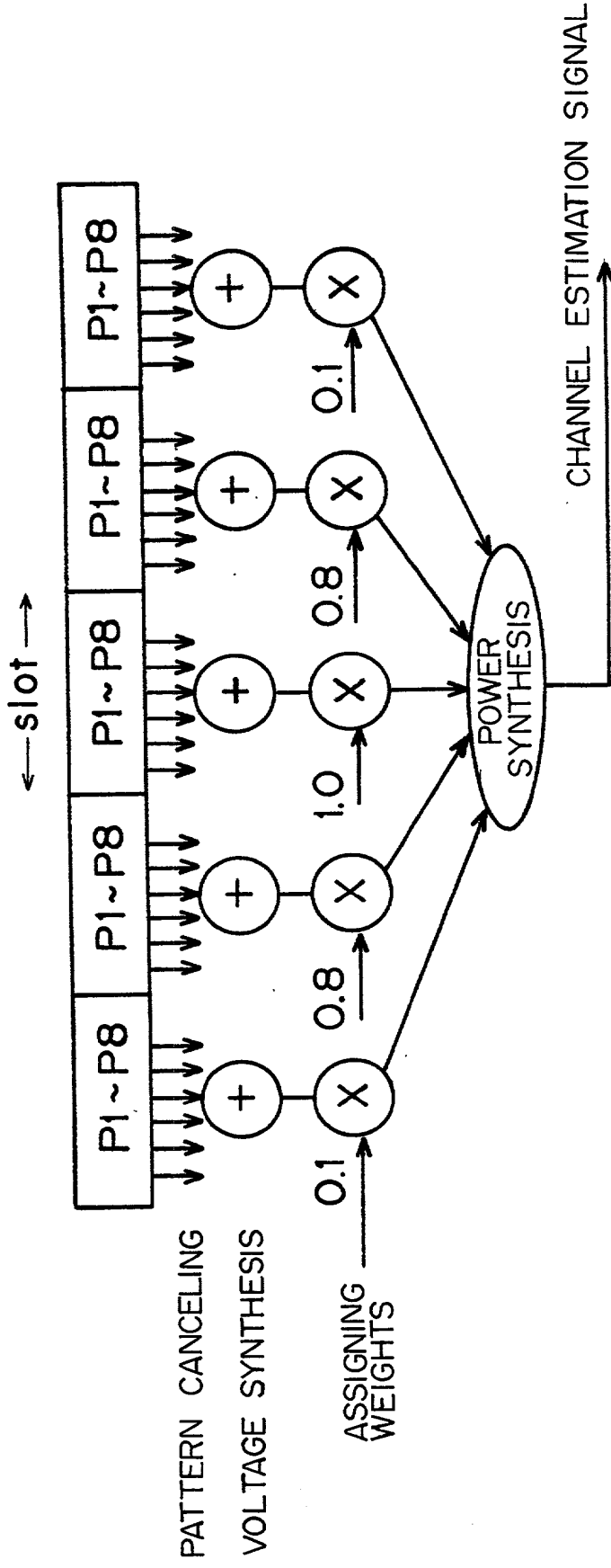


FIG. 3 PRIOR ART

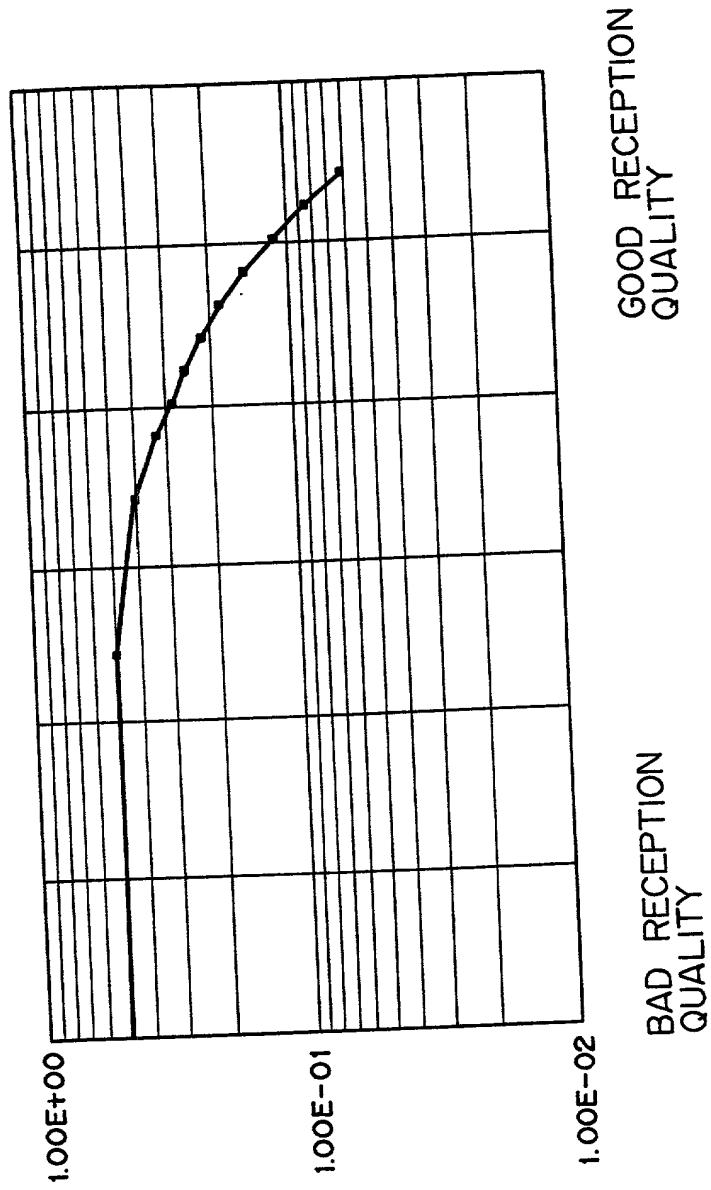


FIG. 4 PRIOR ART

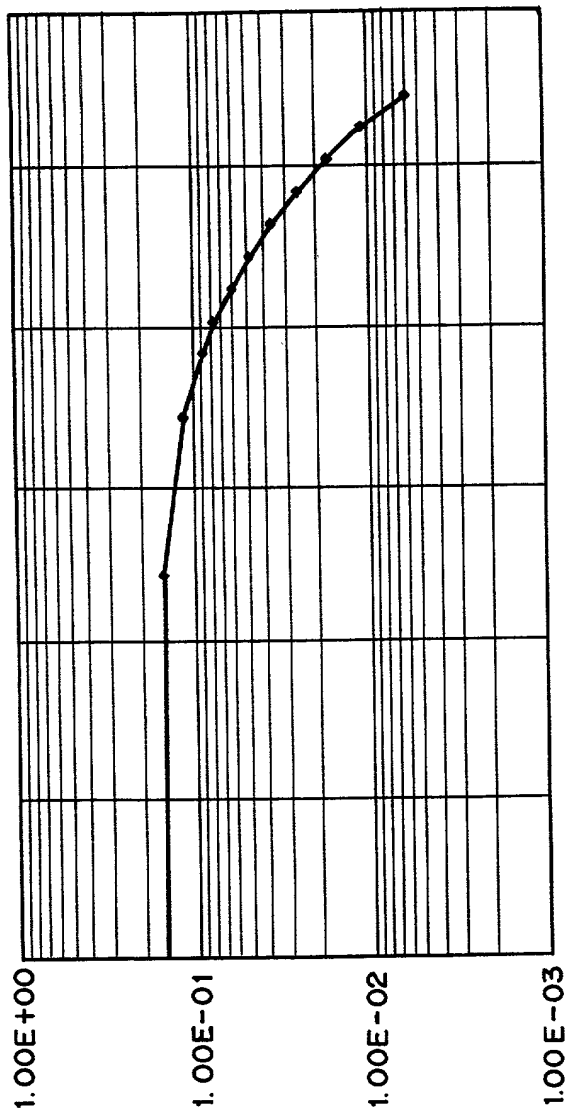


FIG. 5 PRIOR ART

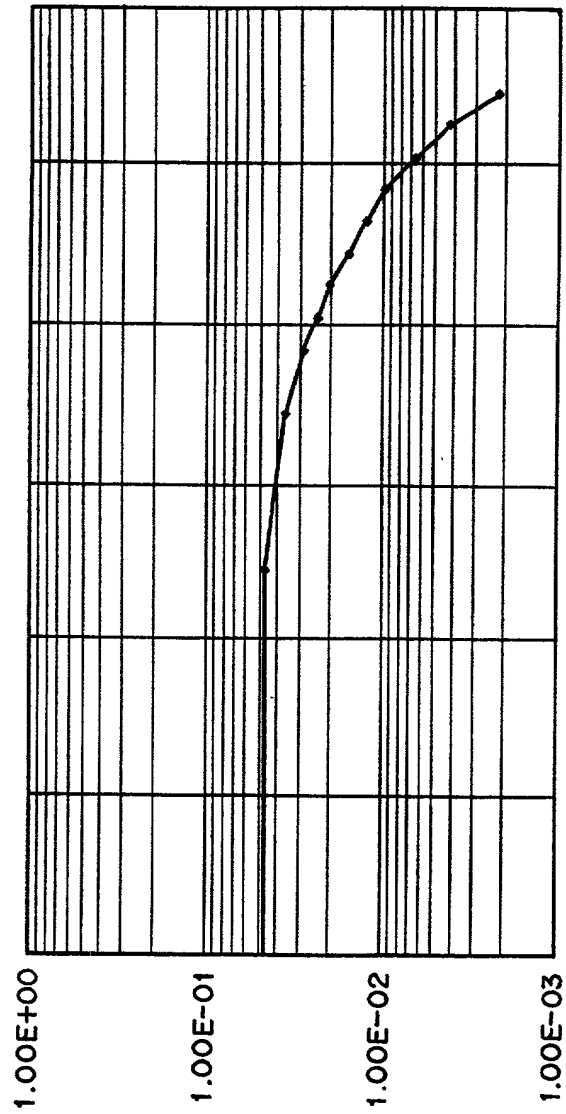


FIG. 6 PRIOR ART

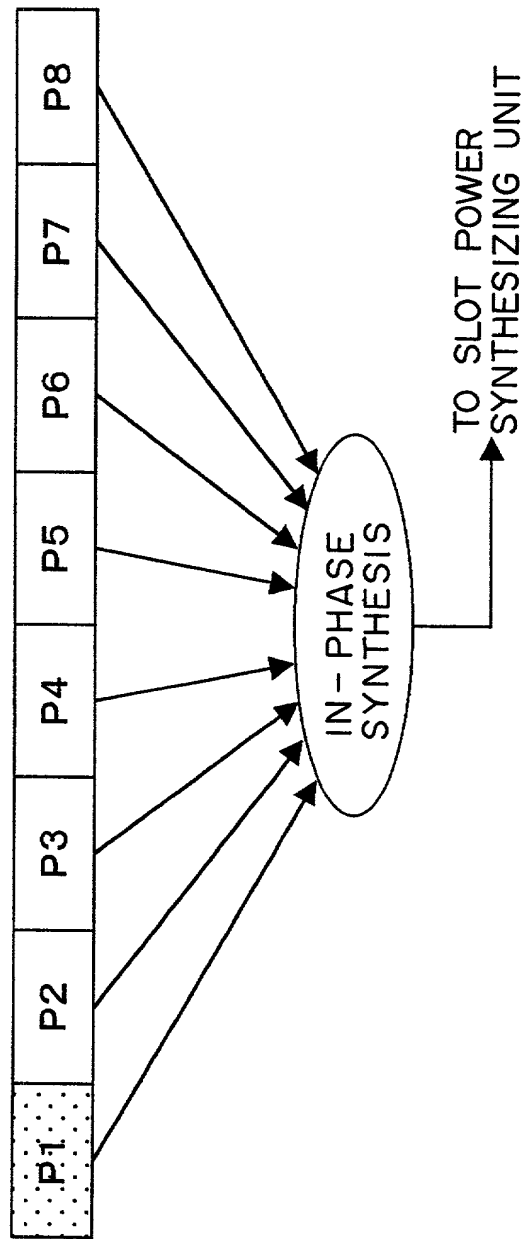


FIG. 7

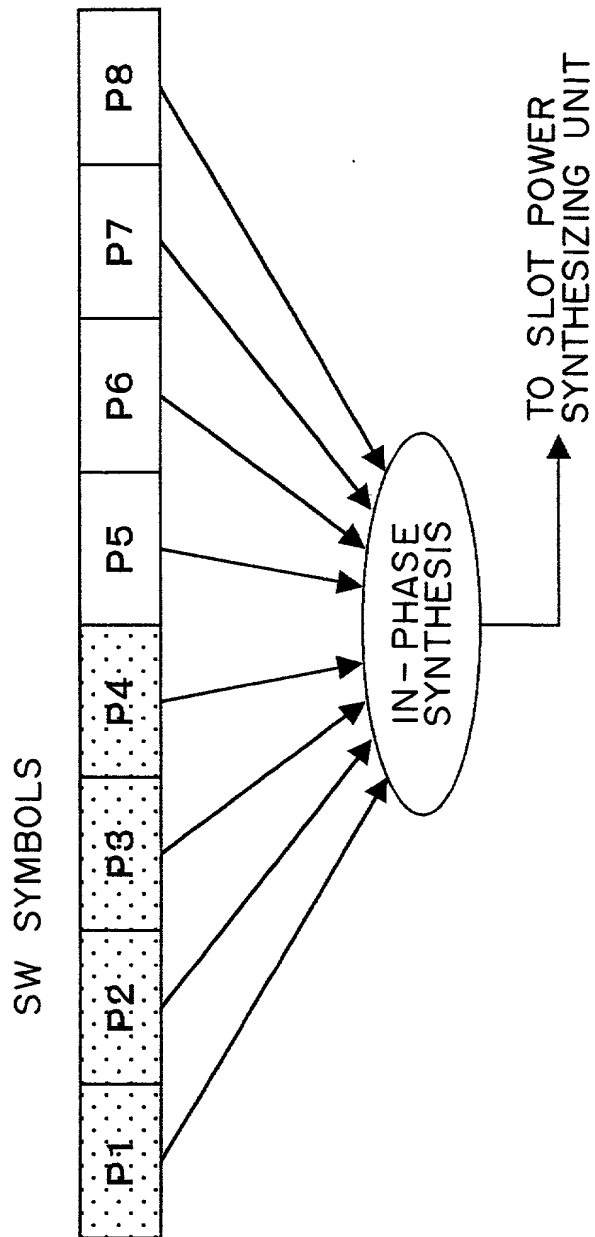


FIG. 8

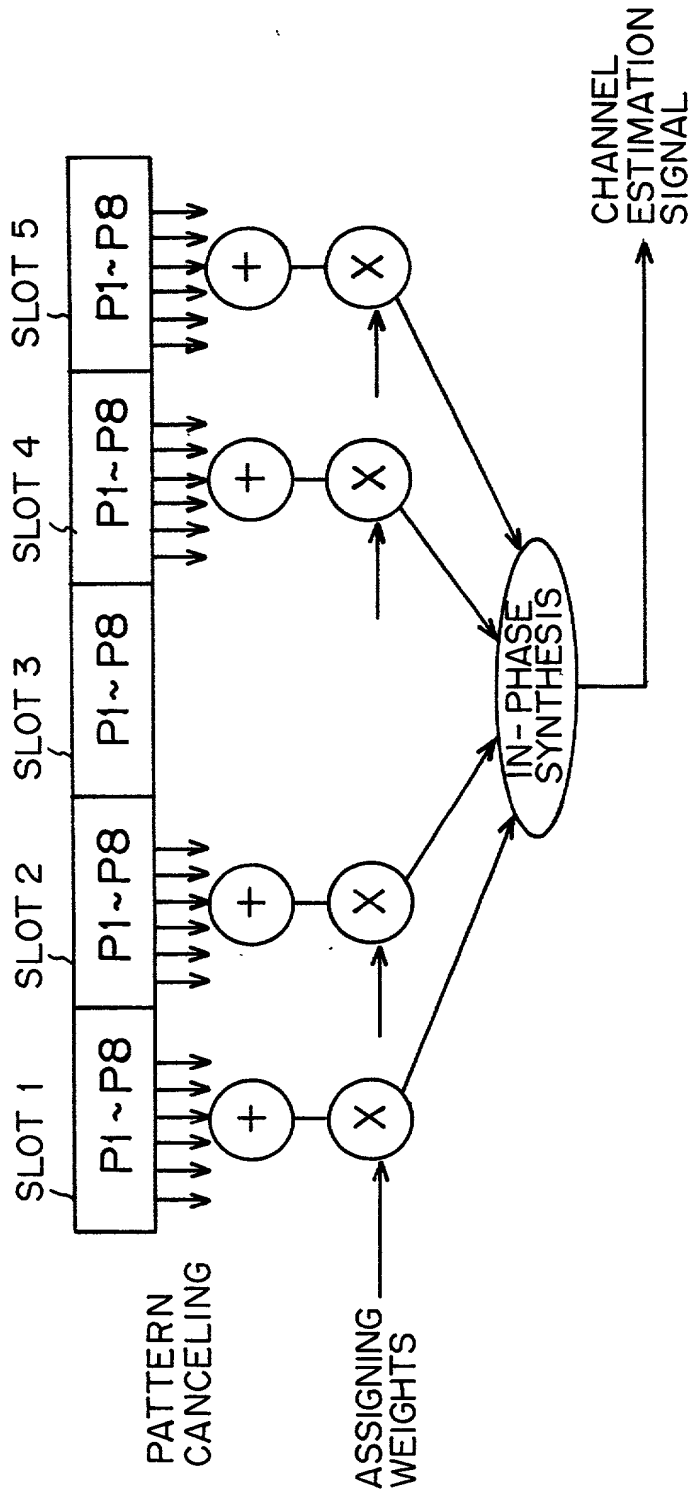


FIG. 9

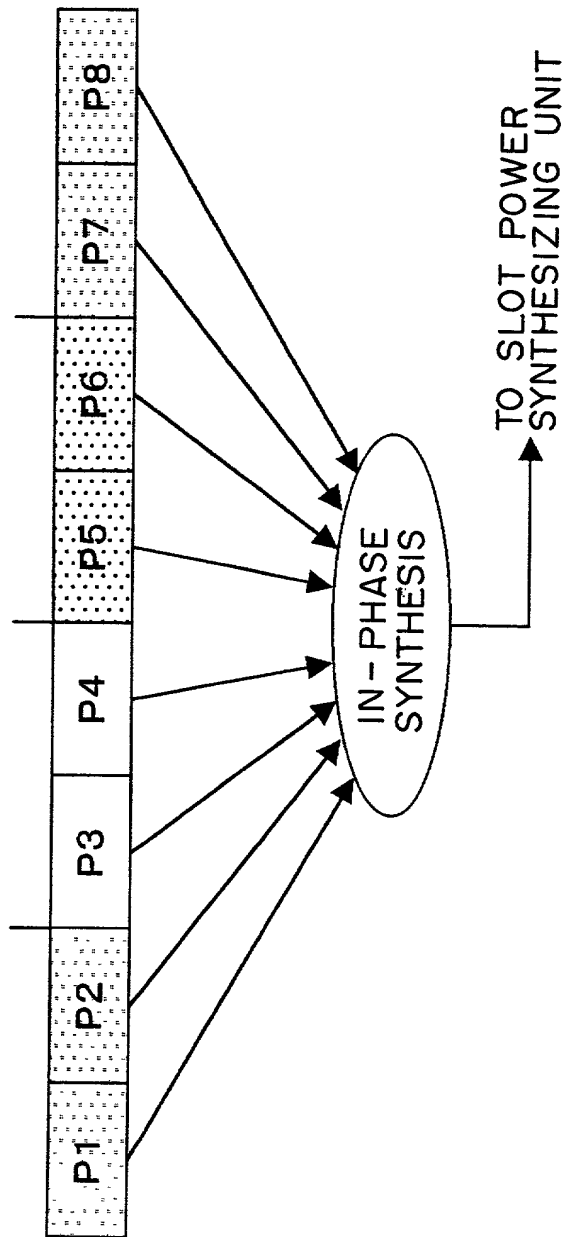


FIG. 10

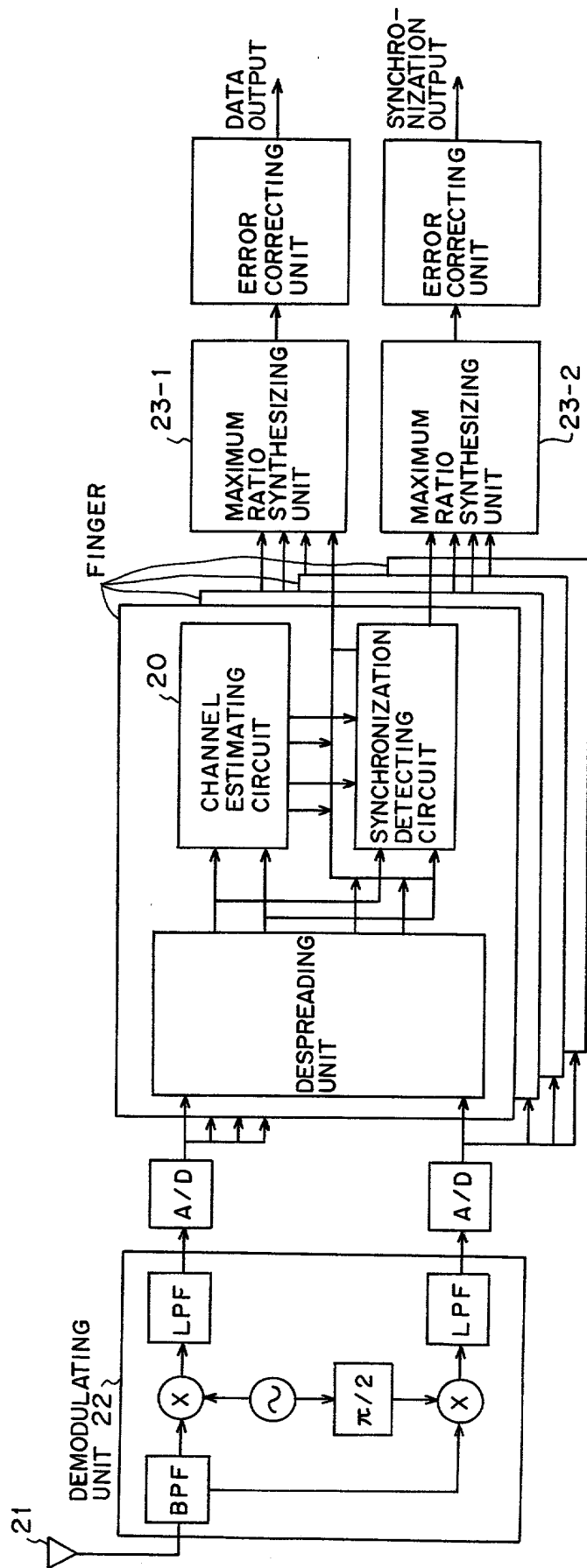


FIG. 11

PILOT PATTERNS

NUMBER OF SYMBOLS :
VARIES DEPENDING
ON SLOT

1slot	1,1,1 . . 1,1,1
2slot	1,1,1 . . 1,-1,1
3slot	1,-1,1 . . 1,-1,1
4slot	1,1,-1 . . 1,-1,1
5slot	1,1,-1 . . 1,1,1
6slot	1,1,-1 . . 1,1,1
7slot	1,-1,1 . . 1,-1,1
8slot	1,1,-1 . . 1,-1,1
9slot	1,1,1 . . 1,-1,1
10slot	1,-1,1 . . 1,-1,1
11slot	1,1,1 . . 1,1,1
12slot	1,-1,1 . . 1,-1,1
13slot	1,-1,1 . . 1,-1,1
14slot	1,1,-1 . . 1,-1,1
15slot	1,-1,1 . . 1,-1,1

1 SYMBOL DELAY

1 SLOT DELAY

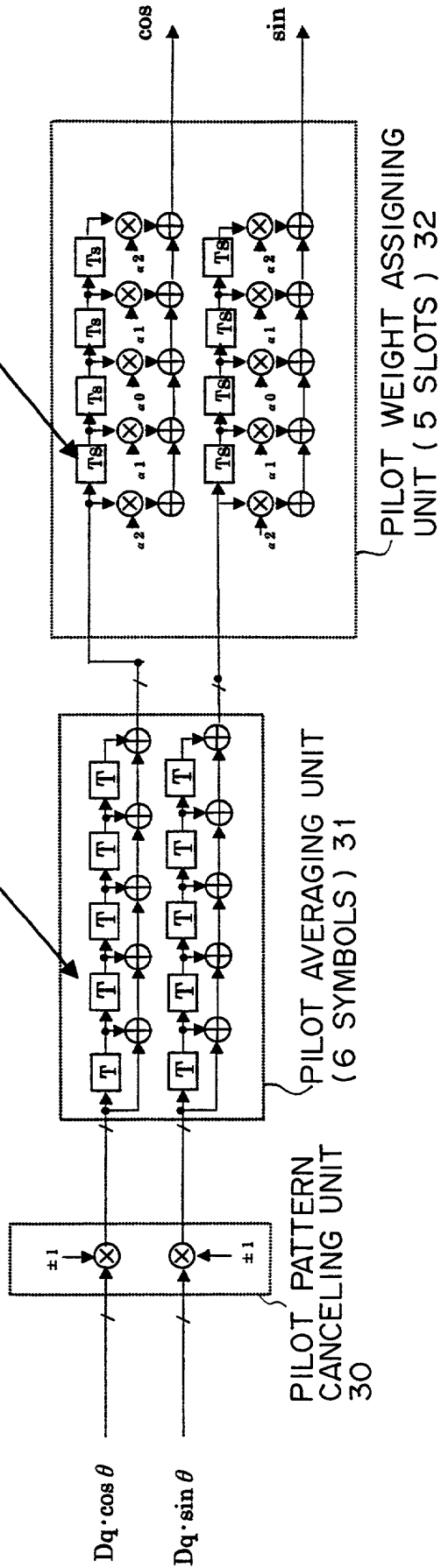


FIG. 12

CH ESTIMATION VALUE

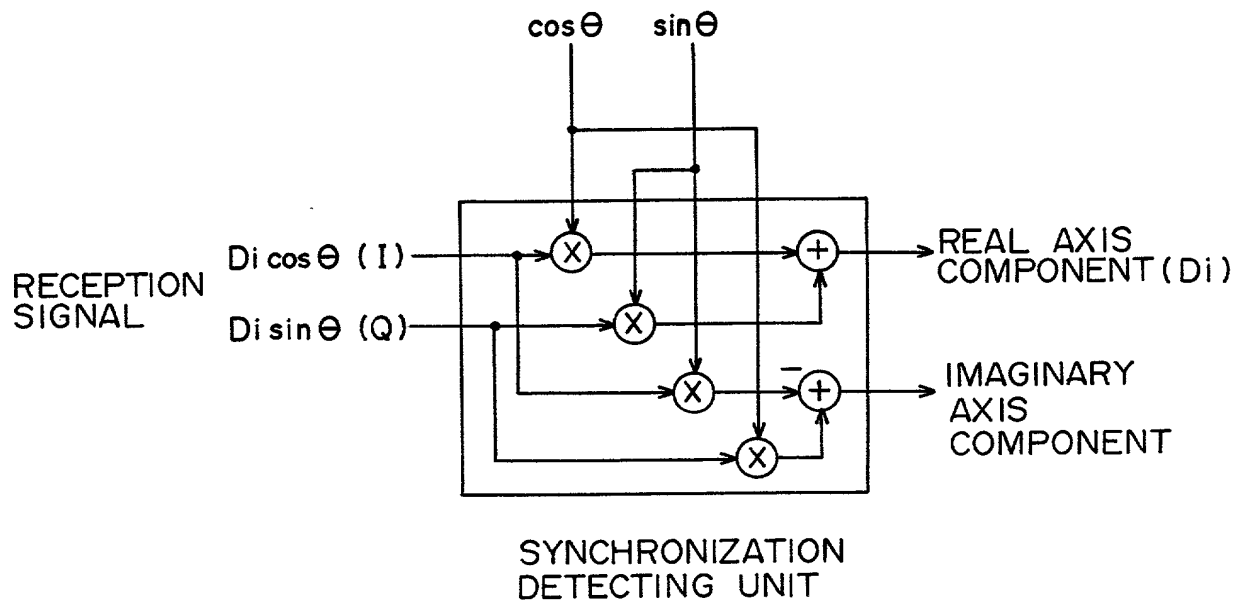


FIG. 13

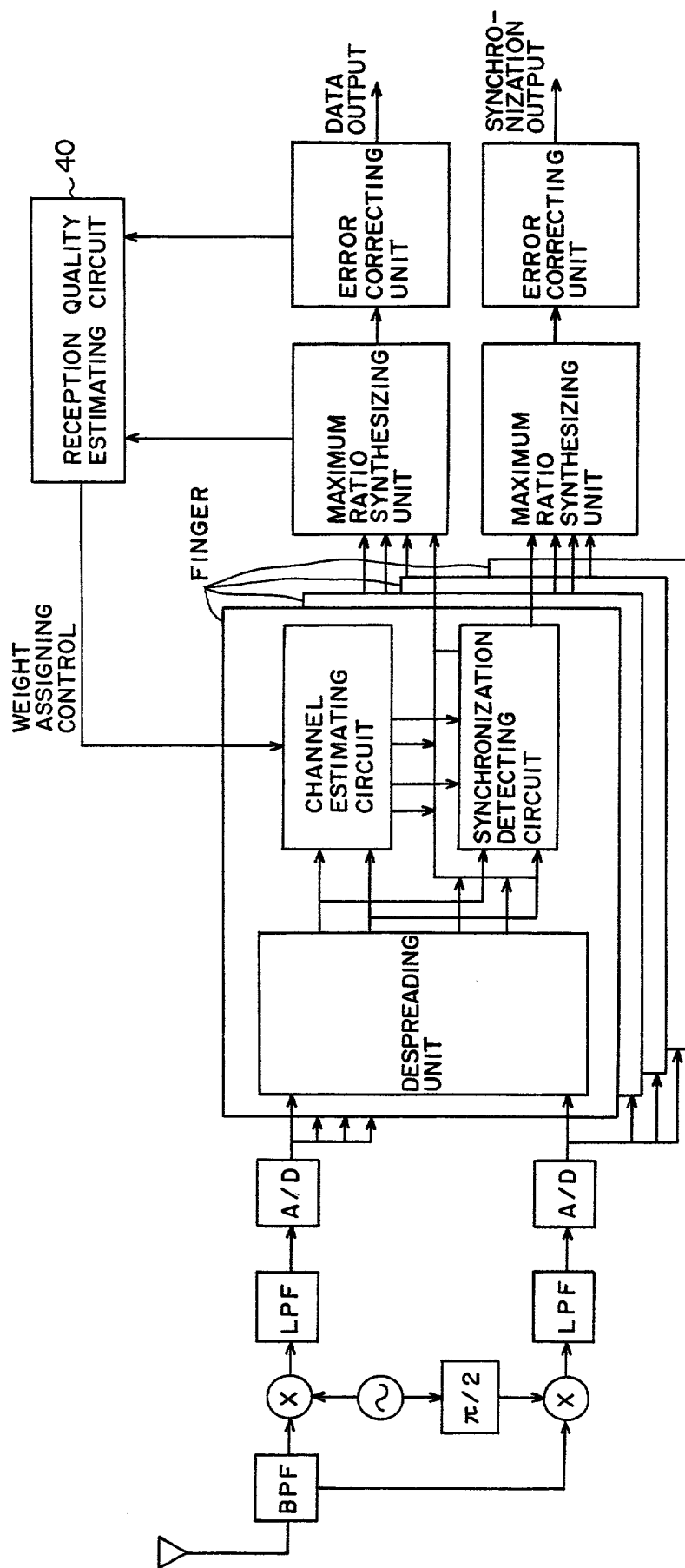


FIG. 14

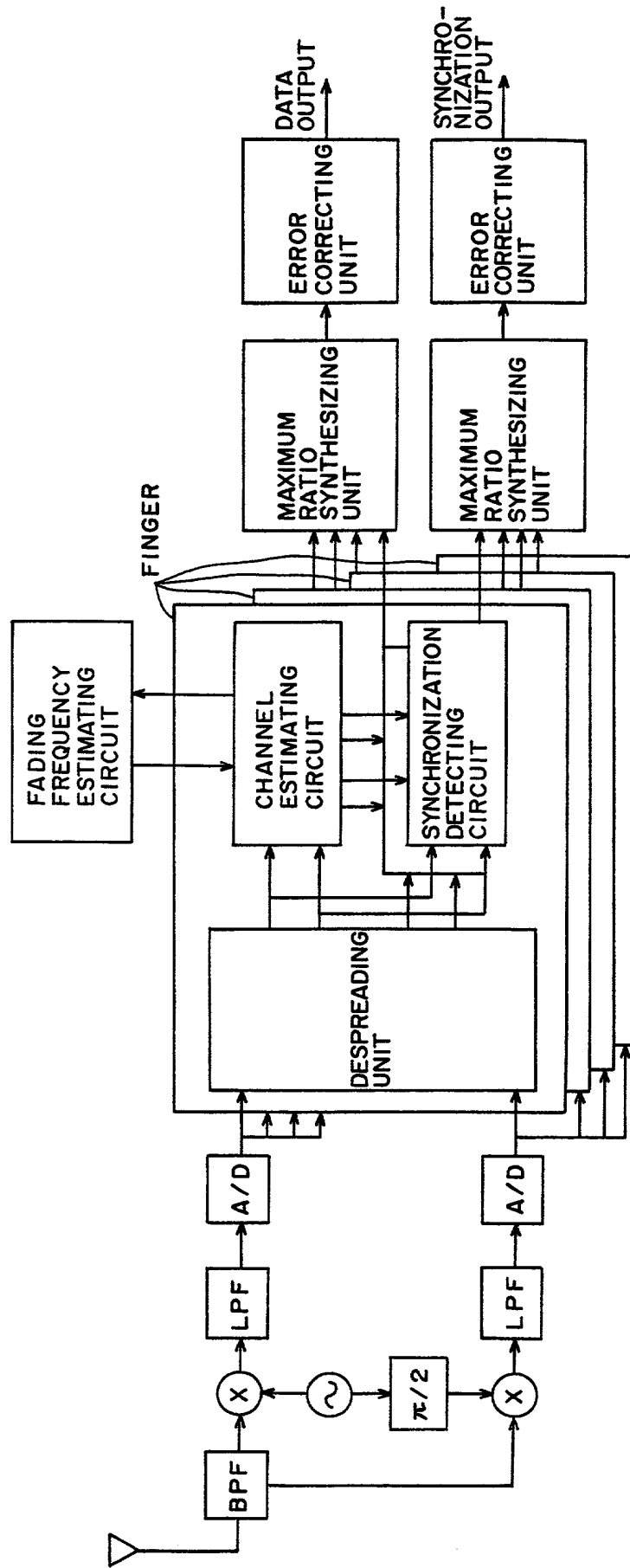


FIG. 15

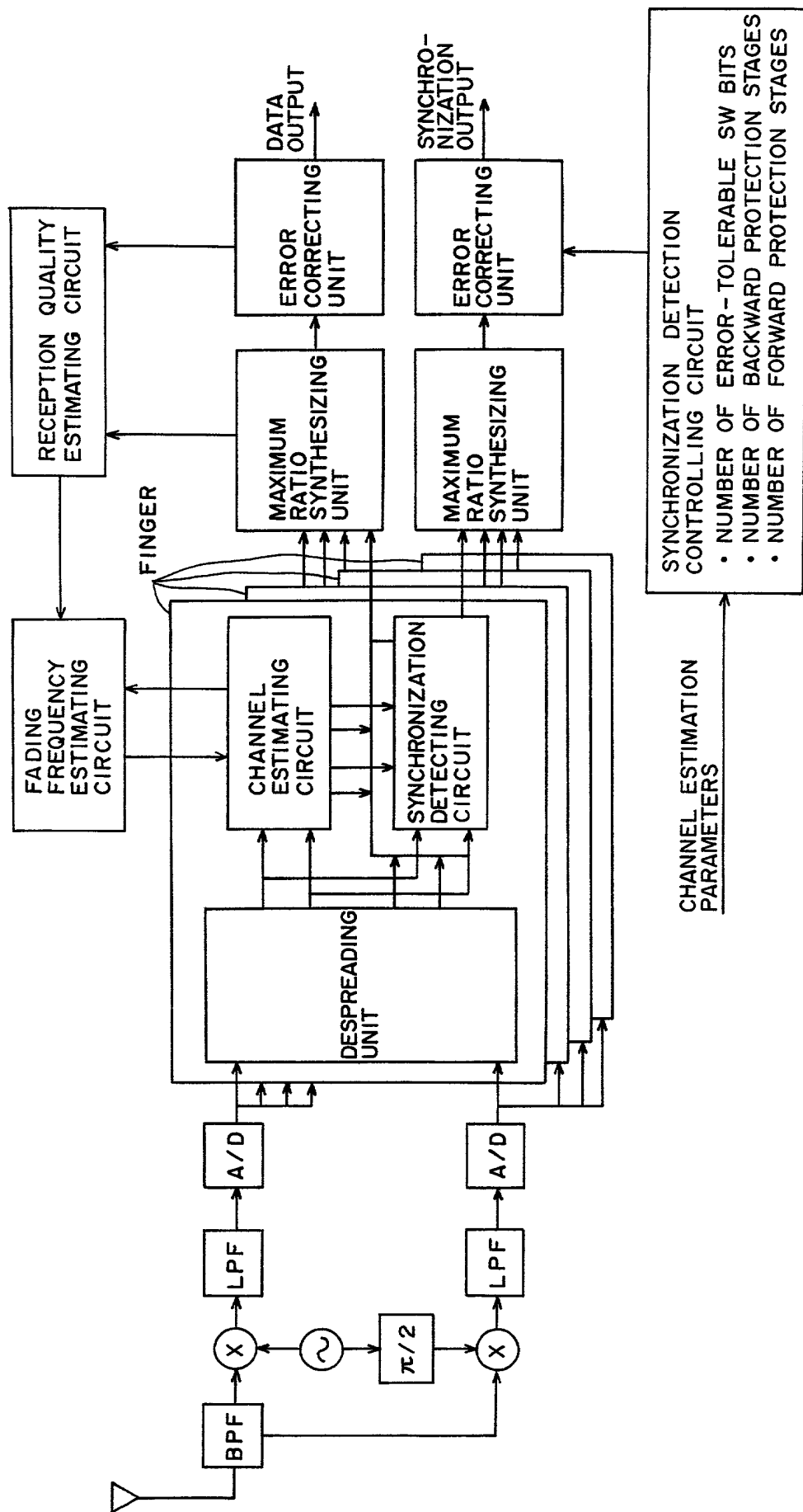


FIG. 16

FADING FREQUENCY

WEIGHT COEFFICIENTS 0, 0, 1, 0, 0
WEIGHT COEFFICIENTS 0, 0, 3, 1, 0, 3, 0
WEIGHT COEFFICIENTS 0, 0, 6, 1, 0, 6, 0
WEIGHT COEFFICIENTS 0, 4, 0, 8, 1, 0, 8, 0, 4
WEIGHT COEFFICIENTS 0, 6, 1, 1, 1, 0, 6
WEIGHT COEFFICIENTS 1, 1, 1, 1, 1

FIG. 17

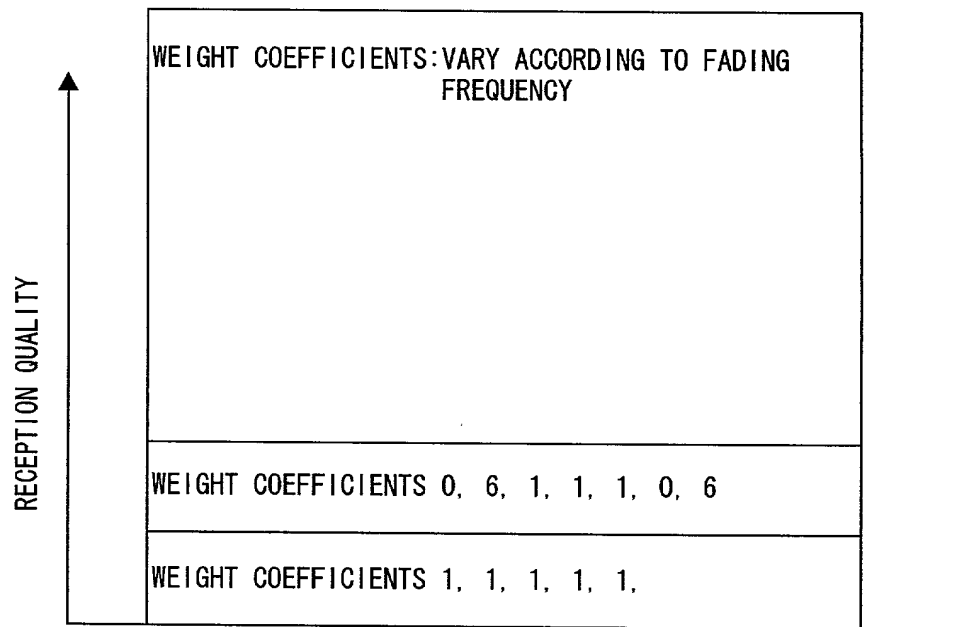


FIG. 18

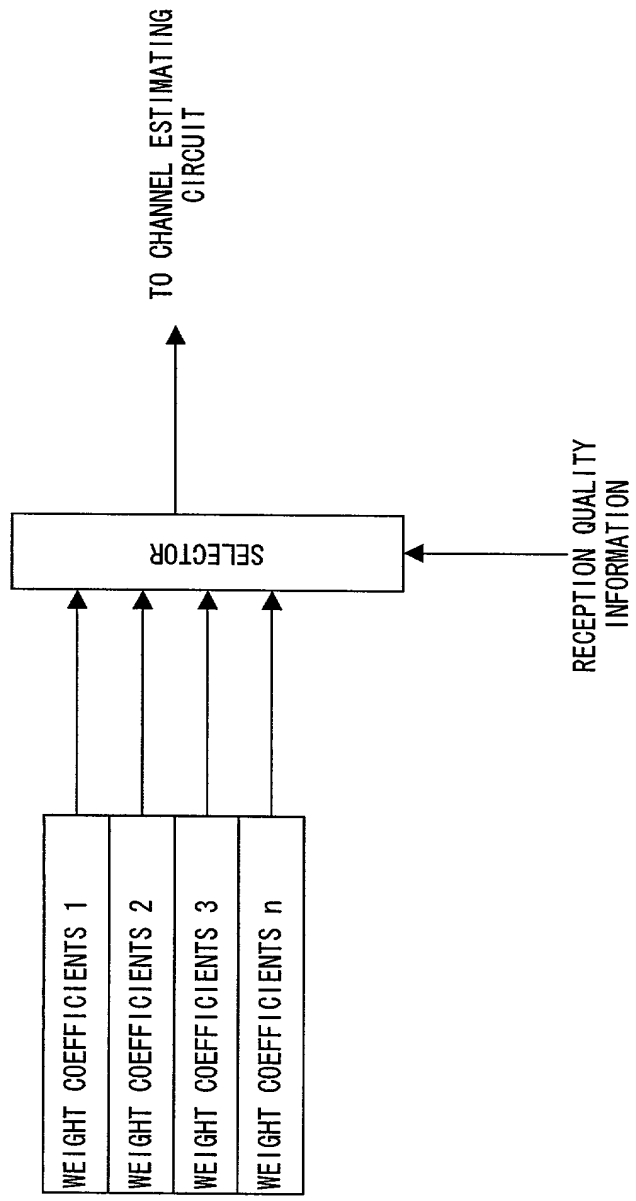


FIG. 19

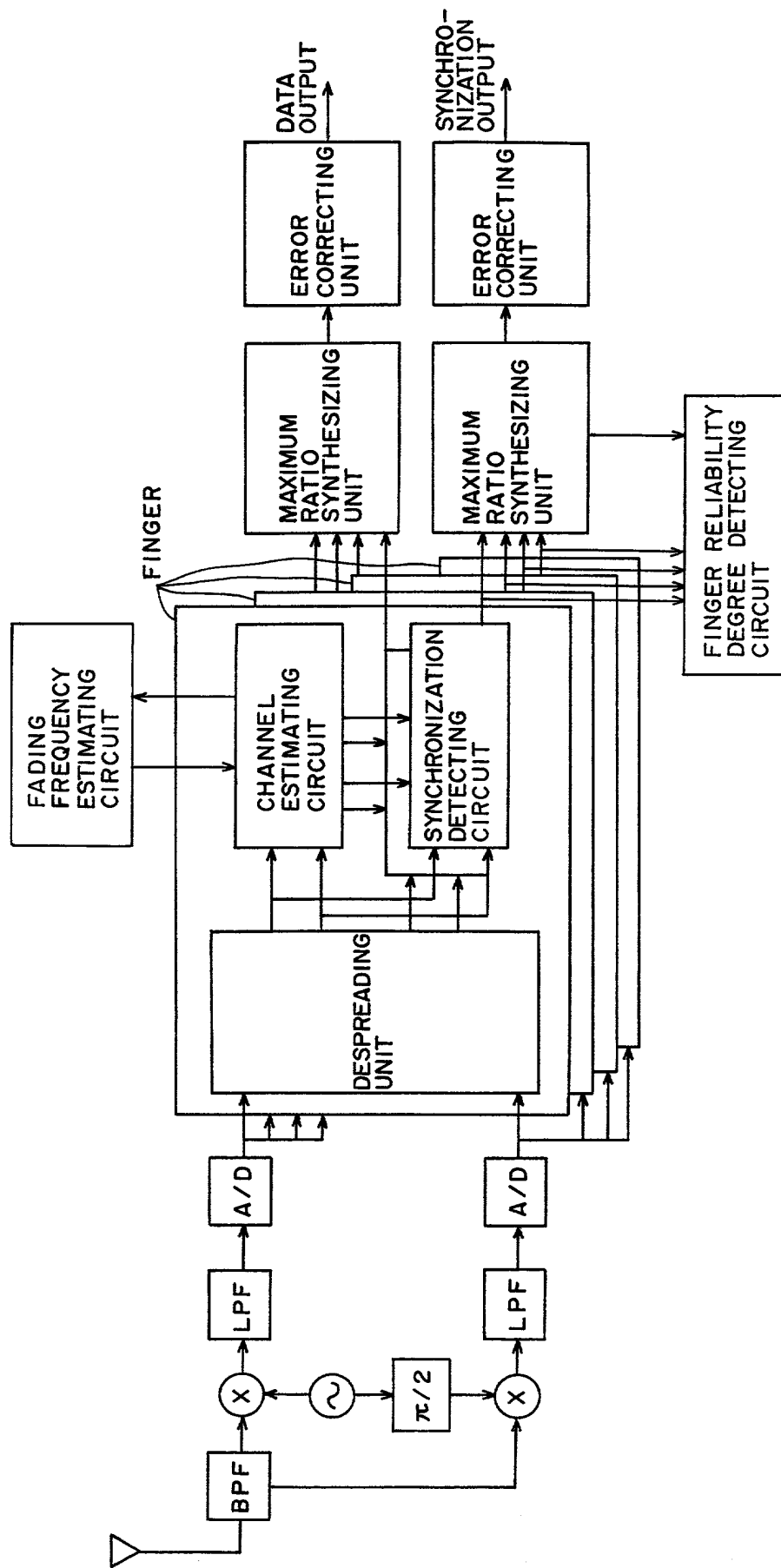


FIG. 20